

What is claimed is:

1. A drilling fluid composition, comprising:
a non-aqueous base fluid;
a blend of one or more copolymers; and
polyethylene.
2. The drilling fluid composition of claim 1, wherein the non-aqueous base fluid is selected from the group consisting of an oil, propylene glycol, modified ester, modified ether, and any combination thereof.
3. The drilling fluid composition of claim 1, wherein the non-aqueous base fluid comprises an emulsion.
4. The drilling fluid composition of claim 3, wherein the emulsion comprises an invert emulsion.
5. The drilling fluid composition of claim 4, wherein the invert emulsion comprises:
an oil;
water; and
particulate solids.
6. The drilling fluid composition of claim 5, wherein the oil is selected from the group consisting of diesel oil, mineral oil, olefins, modified olefins, and any combination thereof.
7. The drilling fluid composition of claim 5, wherein the water is a brine.
8. The drilling fluid composition of claim 1, wherein the blend of one or more copolymers comprises copolymers having an average molecular weight of greater than about 20,000.

9. The drilling fluid composition of claim 1, wherein the blend of one or more copolymers comprises copolymers having an average molecular weight of greater than about 21,000.
10. The drilling fluid composition of claim 1, wherein the blend of one or more copolymers comprises copolymers having an average molecular weight of greater than about 25,000.
11. The drilling fluid composition of claim 1, wherein the copolymers are prepared by a reaction that comprises reacting (a) at least one alpha-olefin, and (b) at least one anhydride of an alpha,beta-ethylenically unsaturated carboxylic acid.
12. The drilling fluid composition of claim 11, wherein the at least one alpha-olefin comprises between two and twenty-five carbon atoms.
13. The drilling fluid composition of claim 11, wherein the anhydride comprises phthalic anhydride.
14. The drilling fluid composition of claim 11, wherein the anhydride comprises maleic anhydride.
15. The drilling fluid composition of claim 11, wherein the alpha,beta-ethylenically unsaturated carboxylic acid is selected from the group consisting of acrylic acid, crotonic acid, itaconic acid, methacrylic acid, ethacrylic acid, maleic acid, fumaric acid, and any combination thereof.
16. The drilling fluid composition of claim 1, wherein the composition comprises between about 0.05 weight percent and 1.0 weight percent of the blend of one or more copolymers.
17. The drilling fluid composition of claim 1, wherein the composition comprises between about 0.075 weight percent and 0.75 weight percent of the blend of one or more copolymers.

18. The drilling fluid composition of claim 1, wherein the composition comprises between about 0.1 weight percent and 0.5 weight percent of the blend of one or more copolymers.
19. The drilling fluid composition of claim 1, wherein the polyethylene has a melt index of less than about 10.
20. The drilling fluid composition of claim 1, wherein the polyethylene has a melt index of less than about 5.
21. The drilling fluid composition of claim 1, wherein the polyethylene has an average particle size of less than about 0.06 inches.
22. The drilling fluid composition of claim 1, wherein the polyethylene has an average particle size of less than about 0.03 inches.
23. The drilling fluid composition of claim 1, further comprising one or more additives.
24. The drilling fluid composition of claim 23, wherein the one or more additives comprise a clayed-based material.
25. The drilling fluid composition of claim 24, wherein the clay-based material comprises a rheologically active clay.
26. The drilling fluid composition of claim 25, wherein the rheologically active clay is selected from the group consisting of organoclays, smectite clays, and a combination thereof.
27. The drilling fluid composition of claim 25, wherein the rheologically active clay comprises hectorite.
28. The drilling fluid composition of claim 25, wherein the rheologically active clay comprises bentonite.

29. The drilling fluid composition of claim 23, wherein the one or more additives comprise a black material.

30. The drilling fluid composition of claim 29, wherein the black material is selected from the group consisting of lignite, salt of lignite, organophilic lignite, asphalt, salt of sulfonated asphalt, gilsonite, graphite, ground tires, and any combination thereof.

31. The drilling fluid composition of claim 23, wherein the one or more additives comprise a weighting agent.

32. The drilling fluid composition of claim 31, wherein the weighting agent is selected from the group consisting of barite, galena, hematite, dolomite, calcite, and any combination thereof.

33. The drilling fluid composition of claim 1, wherein the drilling fluid composition comprises between about 0 weight percent to about 25 weight percent water.

34. The drilling fluid composition of claim 1, wherein the drilling fluid composition comprises between about 1 weight percent to about 20 weight percent water.

35. The drilling fluid composition of claim 1, wherein the drilling fluid composition comprises between about 2 weight percent to about 15 weight percent water.

36. The drilling fluid composition of claim 1, wherein the composition comprises high pressure high temperature fluid loss characteristics of less than about 7.2 ml/30 minutes.

37. The drilling fluid composition of claim 1, wherein the composition comprises high pressure high temperature fluid loss characteristics of less than about 6.5 ml/30 minutes.

38. The drilling fluid composition of claim 1, wherein the composition comprises high pressure high temperature fluid loss characteristics of less than about 6.0 ml/30 minutes.

39. The drilling fluid composition of claim 1, wherein the composition has settling of between about 0% and 25%.
40. The drilling fluid composition of claim 1, wherein the composition has settling of between about 0% and 20%.
41. The drilling fluid composition of claim 1, wherein the composition has settling of between about 0% and 15%.
42. A method of preparing a drilling fluid composition that comprises combining:
 - a non-aqueous base fluid;
 - a blend of one or more copolymers; and
 - polyethylene.
43. The method of claim 42, wherein the non-aqueous base fluid comprises an emulsion.
44. The method of claim 43, wherein the emulsion comprises an invert emulsion
45. The method of claim 44, wherein the invert emulsion comprises:
 - an oil;
 - water; and
 - particulate solids.
46. The method of claim 45, wherein the oil is selected from the group consisting of diesel oil, mineral oil, olefins, modified olefins, and any combination thereof.
47. The method of claim 45, wherein the water is a brine.
48. The method of claim 42, wherein the blend of one or more copolymers comprises copolymers having an average molecular weight of greater than about 20,000.

49. The method of claim 42, wherein the blend of one or more copolymers comprises copolymers having an average molecular weight of greater than about 25,000.

50. The method of claim 42, wherein the copolymers are prepared by a reaction comprising reacting (a) at least one alpha-olefin, and (b) at least one anhydride of an alpha,beta-ethylenically unsaturated carboxylic acid.

51. The method of claim 50, wherein the at least one alpha-olefin comprises between two and twenty-five carbon atoms.

52. The method of claim 50, wherein the anhydride comprises phthalic anhydride.

53. The method of claim 50, wherein the anhydride comprises maleic anhydride.

54. The method of claim 50, wherein the alpha,beta-ethylenically unsaturated carboxylic acid is selected from the group consisting of acrylic acid, crotonic acid, itaconic acid, methacrylic acid, ethacrylic acid, maleic acid, fumaric acid, and any combination thereof.

55. The method of claim 42, wherein the composition comprises between about 0.05 weight percent and 1.0 weight percent of the blend of one or more copolymers.

56. The method of claim 42, wherein the polyethylene has a melt index of less than about 10.

57. The method of claim 42, wherein the polyethylene has an average particle size of less than about 0.06 inches.

58. The method of claim 42, further comprising the step of adding one or more additives into the drilling fluid composition.

59. The method of claim 58, wherein the one or more additives comprise a clayed-based material.

60. The method of claim 59, wherein the clay-based material comprises a rheologically active clay.

61. The method of claim 60, wherein the rheologically active clay is selected from the group consisting of organoclays, smectite clays, and a combination thereof.

62. The method of claim 60, wherein the rheologically active clay comprises hectorite.

63. The method of claim 60, wherein the rheologically active clay comprises bentonite.

64. The method of claim 58, wherein the one or more additives comprise a black material.

65. The method of claim 64, wherein the black material is selected from the group consisting of lignite, salt of lignite, organophilic lignite, asphalt, salt of sulfonated asphalt, gilsonite, graphite, ground tires, and any combination thereof.

66. The method of claim 58, wherein the one or more additives comprise a weighting agent.

67. The method of claim 66, wherein the weighting agent is selected from the group consisting of barite, galena, hematite, dolomite, calcite, and any combination thereof.

68. The method of claim 42, wherein the drilling fluid composition comprises between about 0 weight percent to about 25 weight percent water.

69. The method of claim 42, wherein the composition comprises high pressure high temperature fluid loss characteristics of less than about 7.2 ml/30 minutes.

70. A process of drilling a well, comprising circulating in the well a drilling fluid composition comprising a non-aqueous base fluid, a blend of one or more copolymers, and polyethylene.